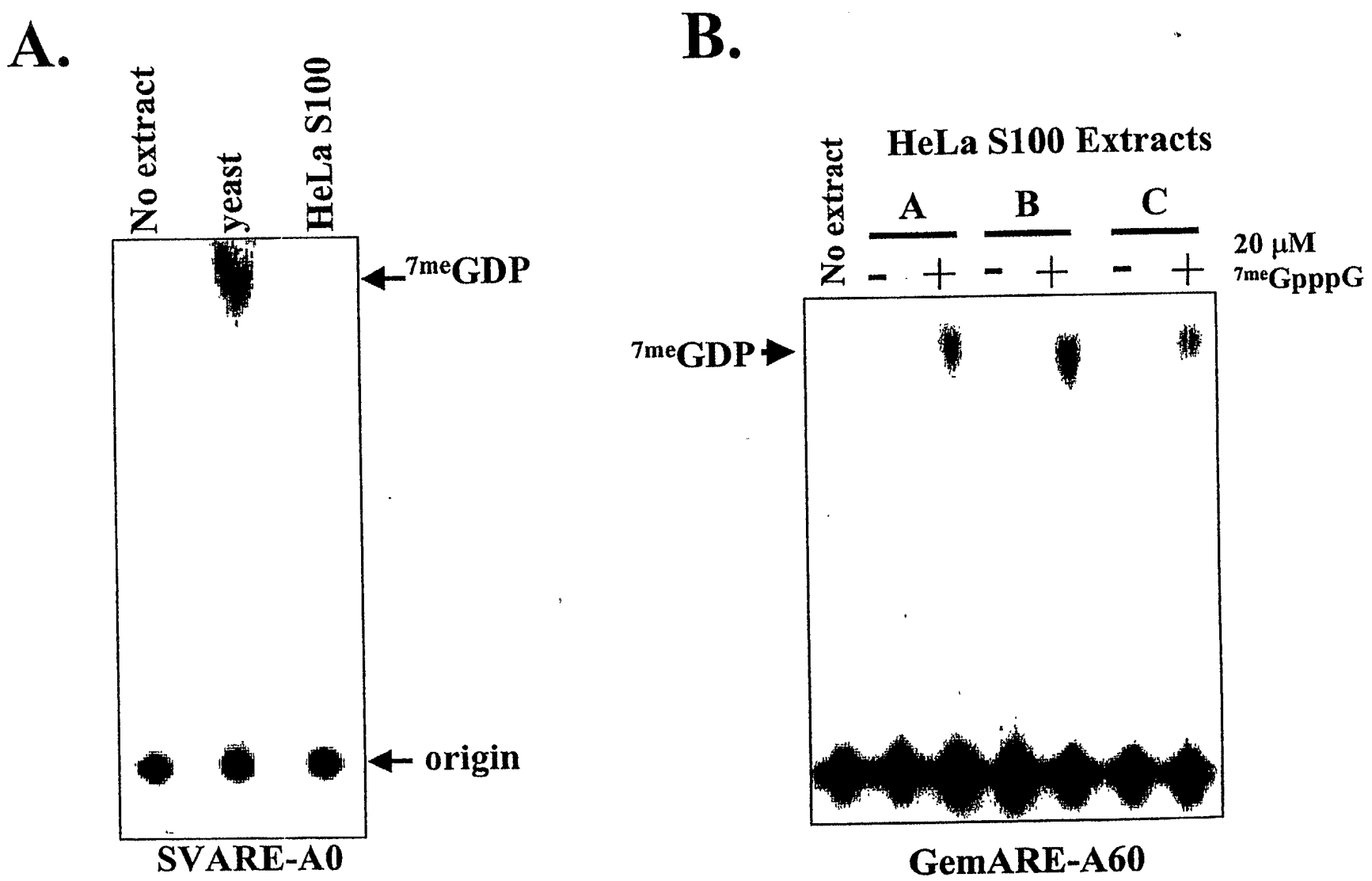

A.
No extract
yeast
HeLa S100
7meGDP
origin
SVARE-A0
B.
HeLa S100 Extracts
A
B
C
No extract
20 μM
7meGpppG
7meGDP
GemARE-A60

Figure 1.

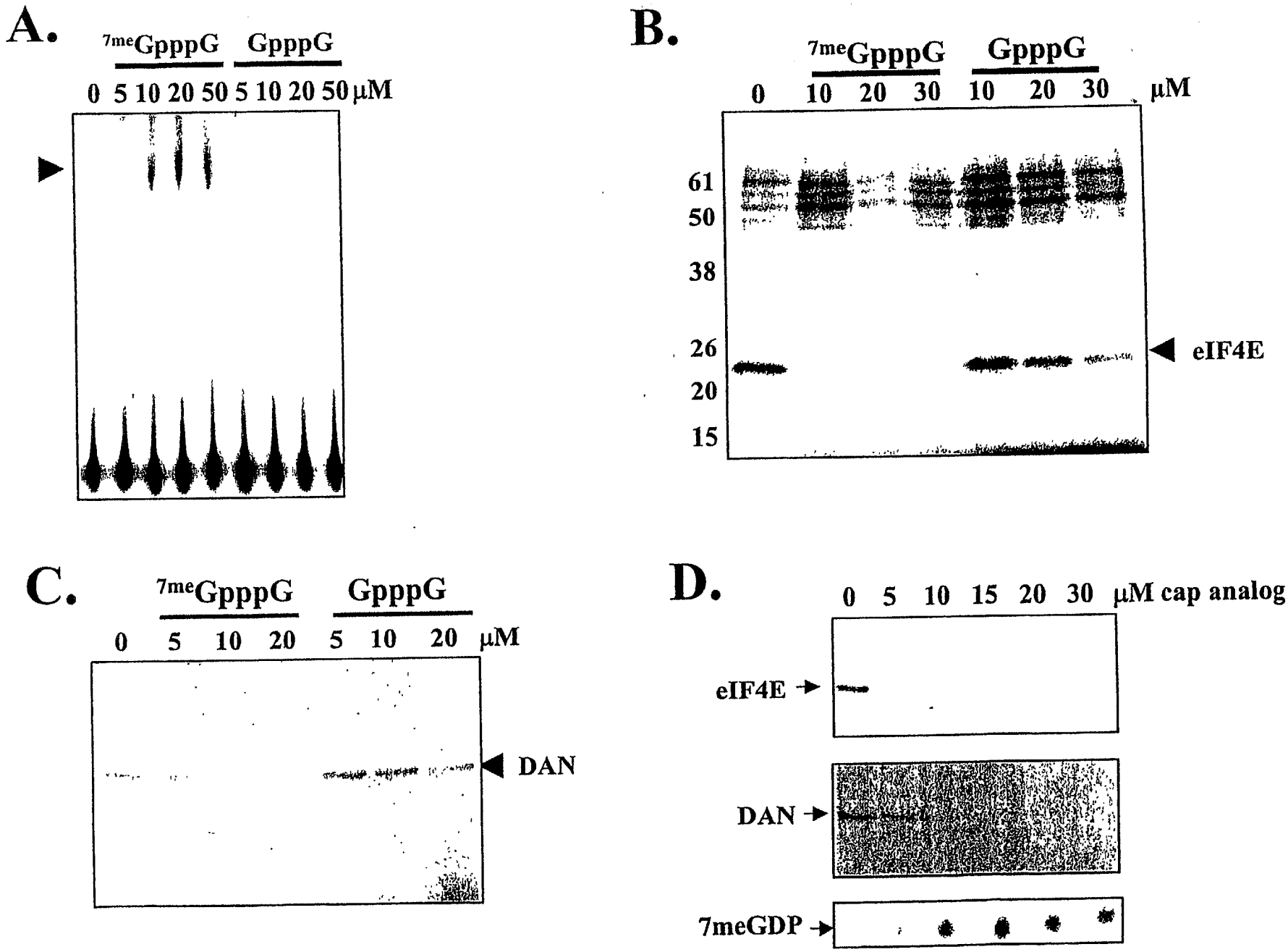


Figure 2.

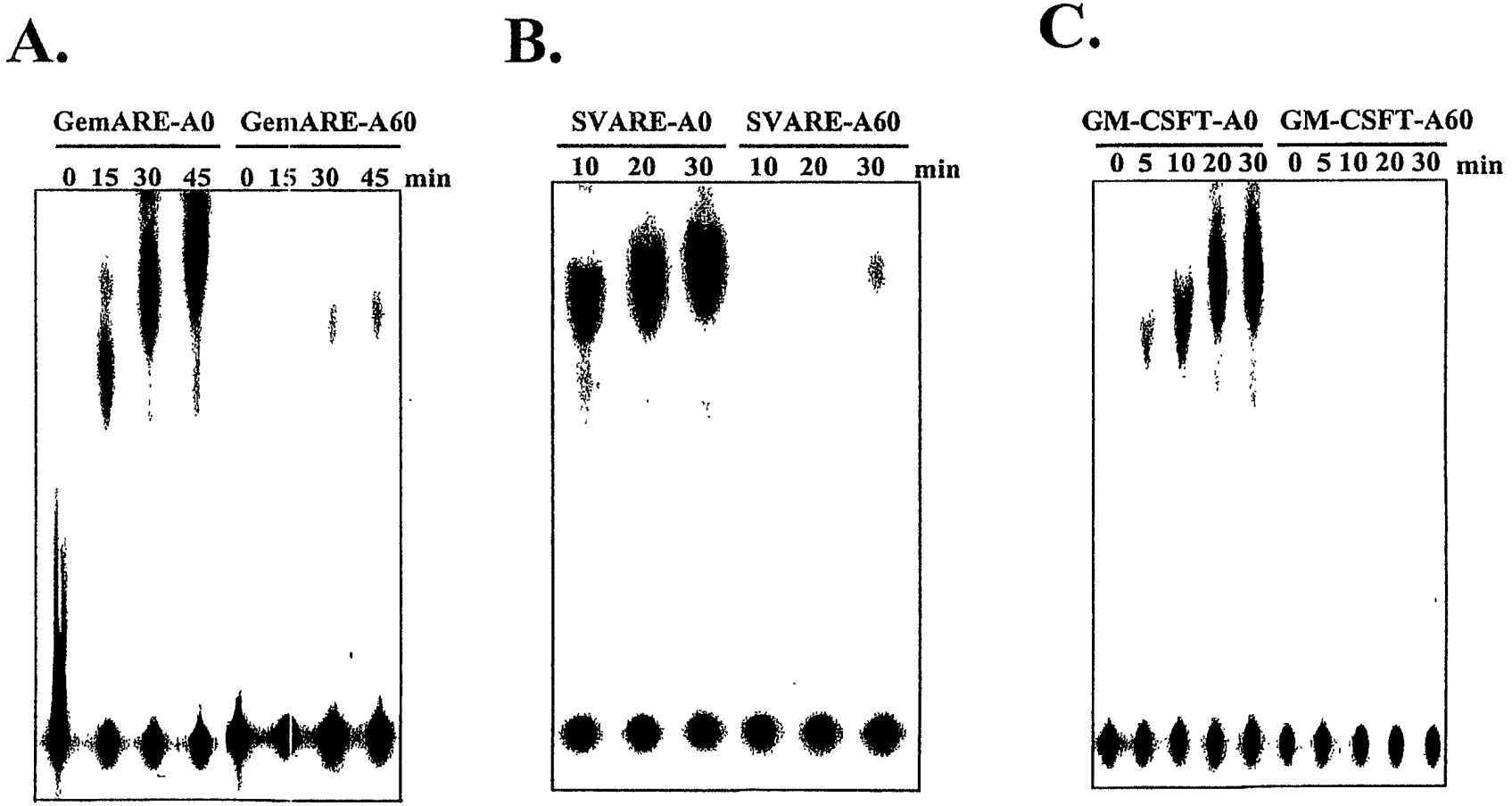

A.
GemARE-A0
GemARE-A60
0 15 30 45 0 15 30 45 min
B.
SVARE-A0
SVARE-A60
10 20 30 10 20 30 min
C.
GM-CSFT-A0
GM-CSFT-A60
0 5 10 20 30 0 5 10 20 30 min

Figure 3.

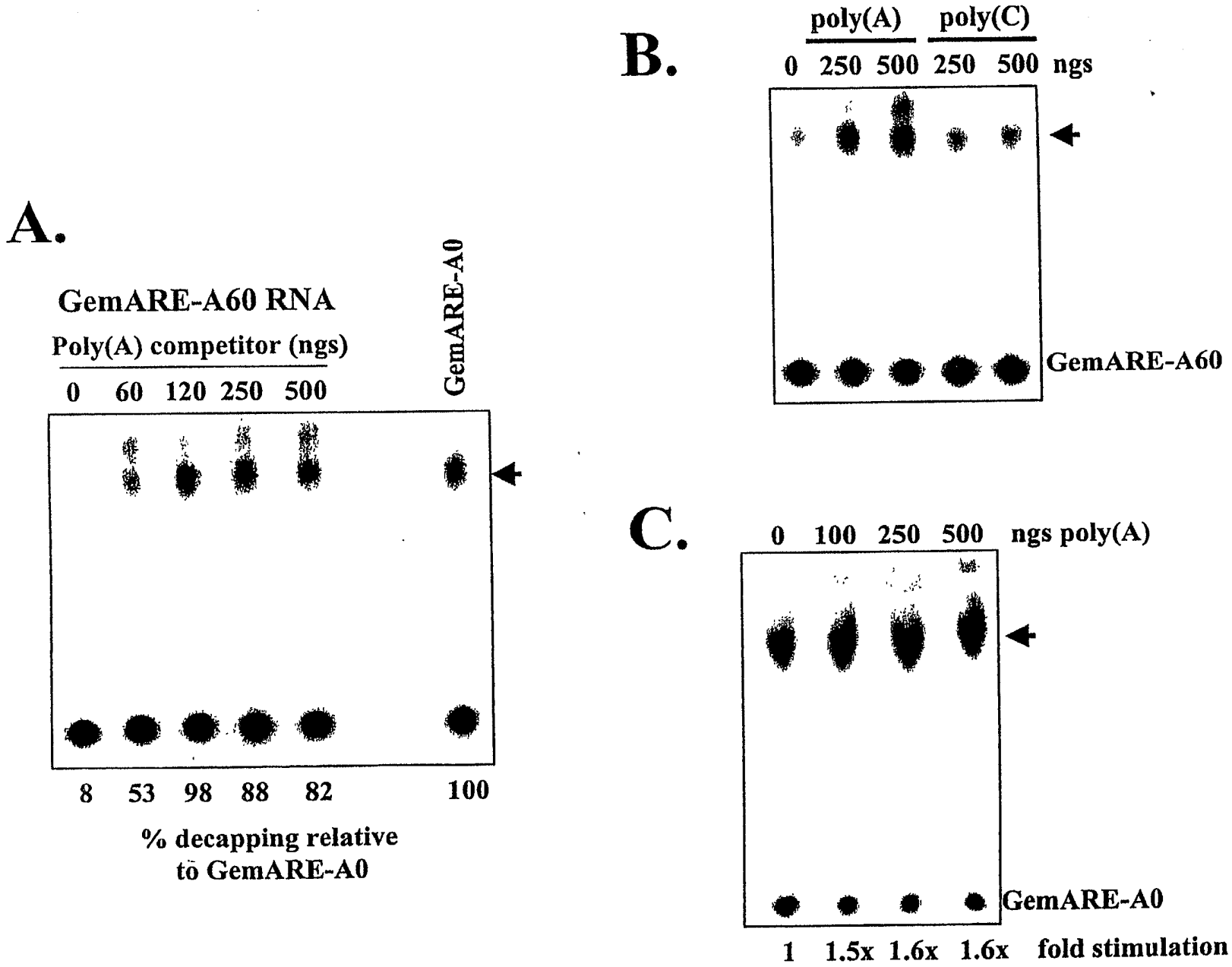

A.
GemARE-A60 RNA
Poly(A) competitor (ngs)
0 60 120 250 500
GemARE-A0
8 53 98 88 82 100
% decapping relative to GemARE-A0
B.
poly(A) poly(C)
0 250 500 250 500 ngs
GemARE-A60
C.
0 100 250 500 ngs poly(A)
GemARE-A0
1 1.5x 1.6x 1.6x fold stimulation

Figure 4.

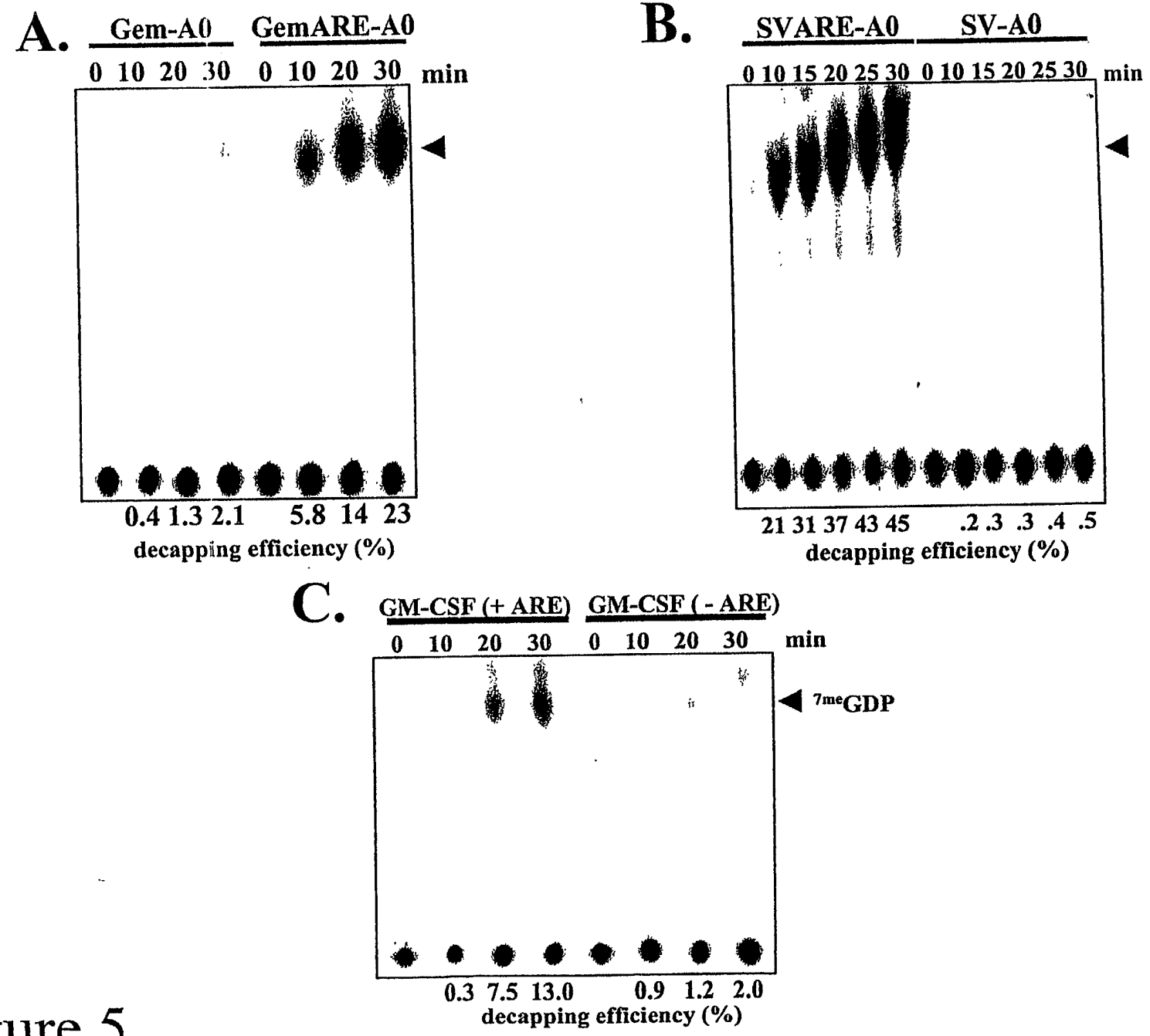

A.
Gem-A0
GemARE-A0
0 10 20 30 0 10 20 30 min
0.4 1.3 2.1 5.8 14 23
decapping efficiency (%)
B.
SVARE-A0
SV-A0
0 10 15 20 25 30 0 10 15 20 25 30 min
21 31 37 43 45 .2 .3 .3 .4 .5
decapping efficiency (%)
C.
GM-CSF (+ ARE)
GM-CSF (- ARE)
0 10 20 30 0 10 20 30 min
7meGDP
0.3 7.5 13.0 0.9 1.2 2.0
decapping efficiency (%)

Figure 5.

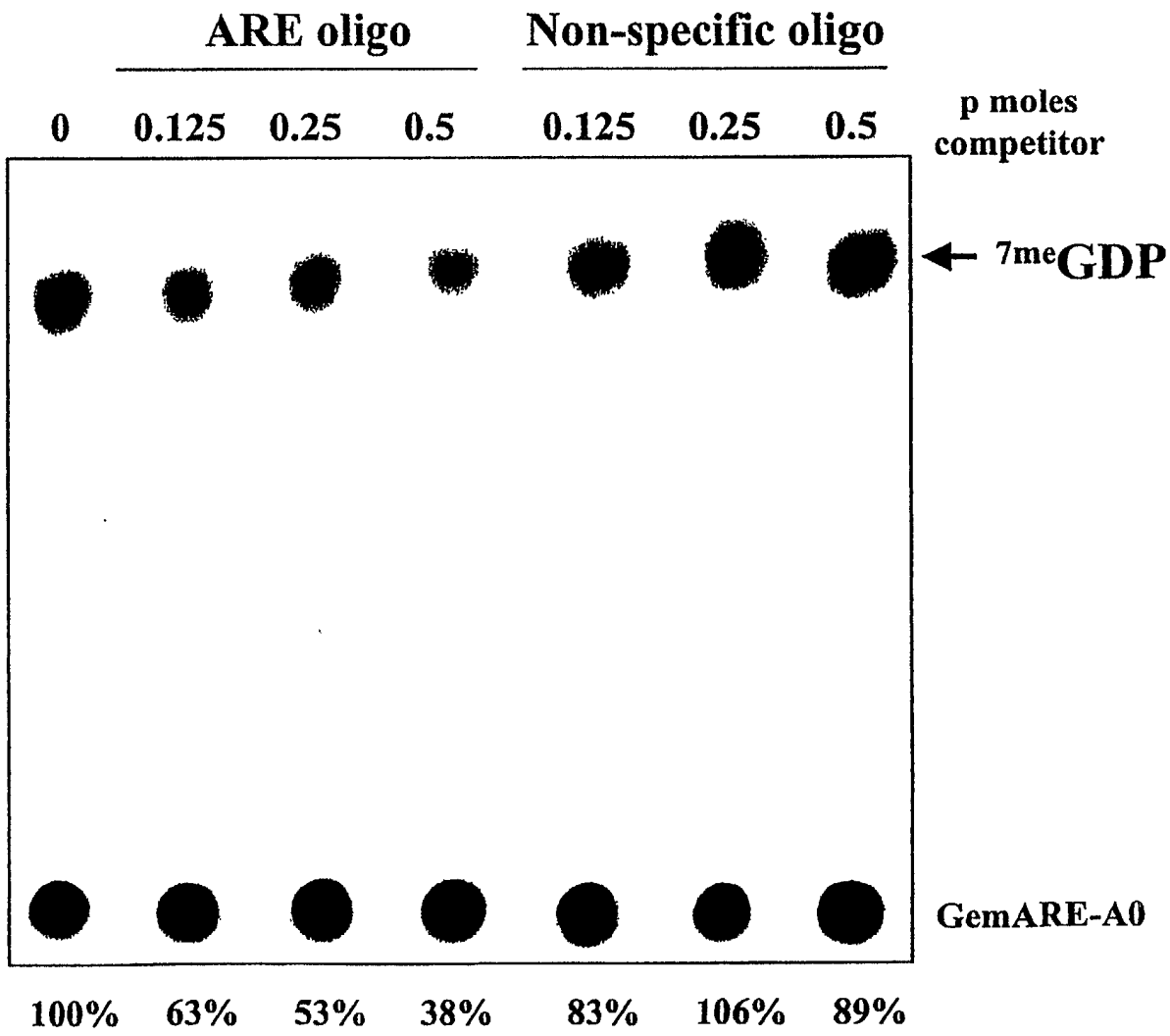


Figure 6.

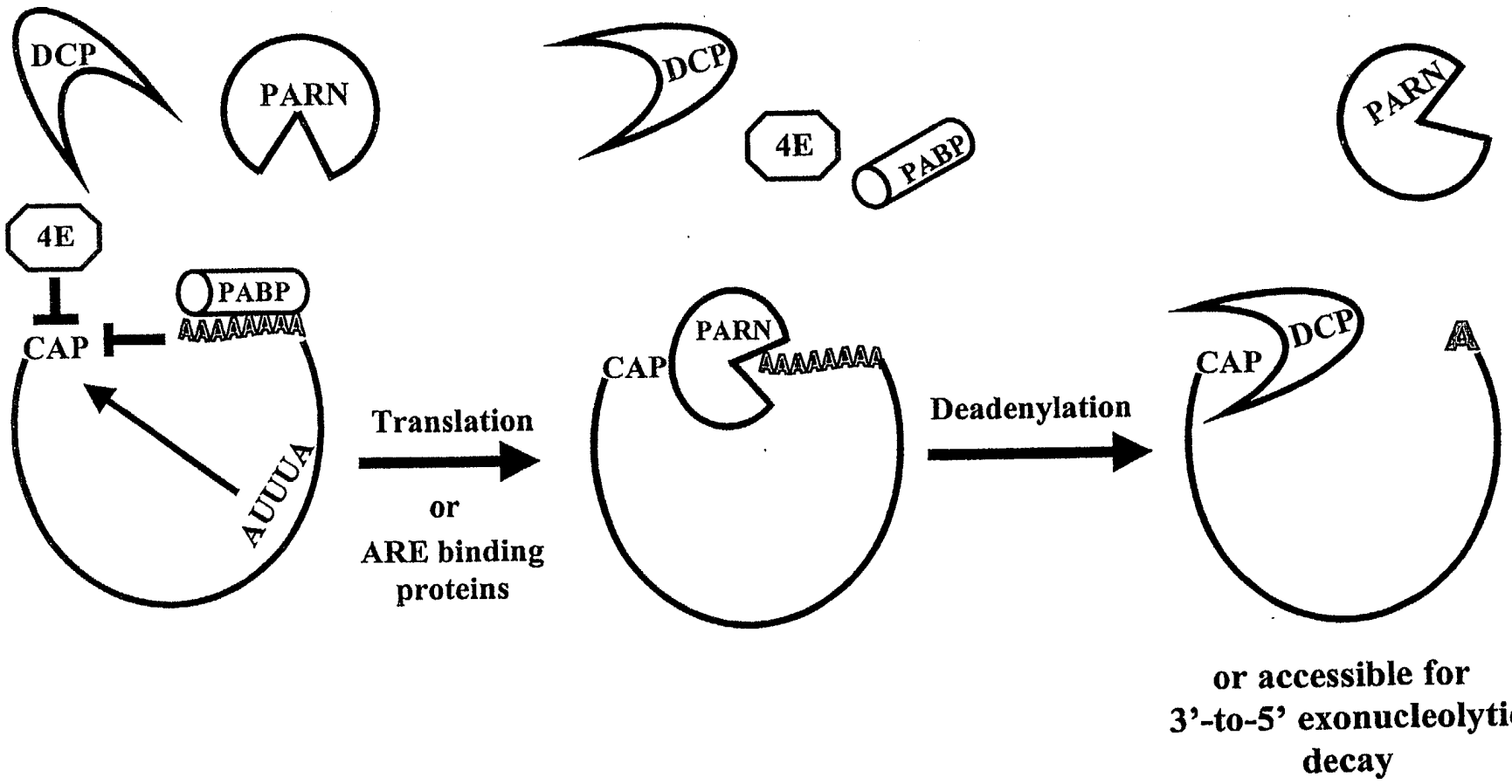

DCP
PARN
4E
PABP
AAAAAAAA
CAP
AUUUA
Translation
or
ARE binding
proteins
DCP
4E
PABP
PARN
CAP
PARN
AAAAAAAA
Deadenylation
CAP
DCP
A
or accessible for
3'-to-5' exonucleolytic
decay

Figure 7.

A

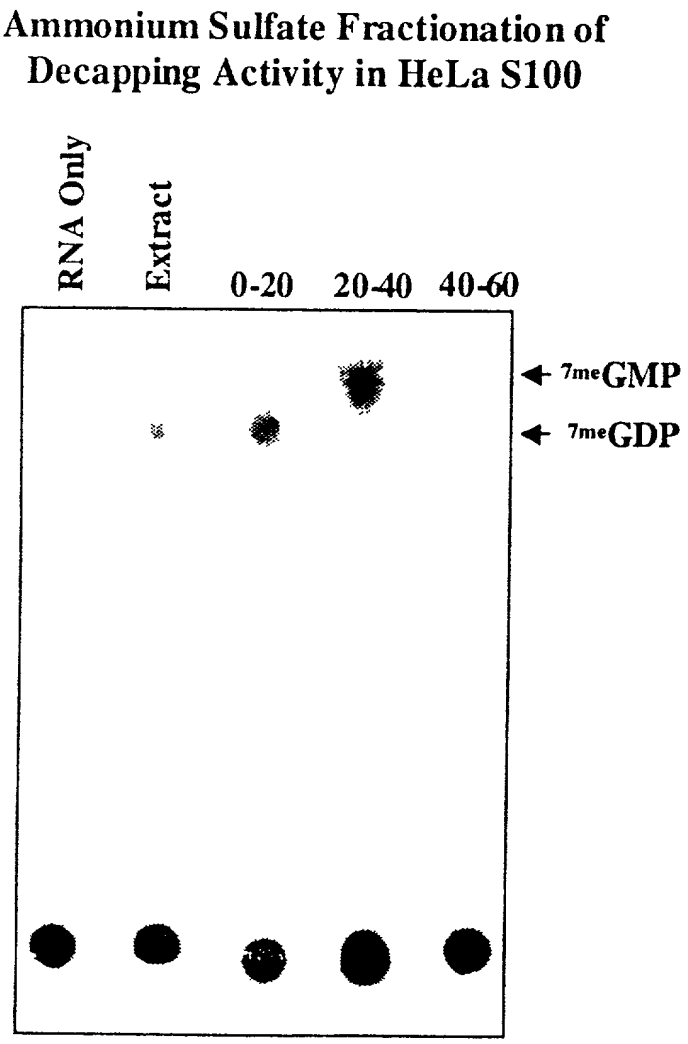
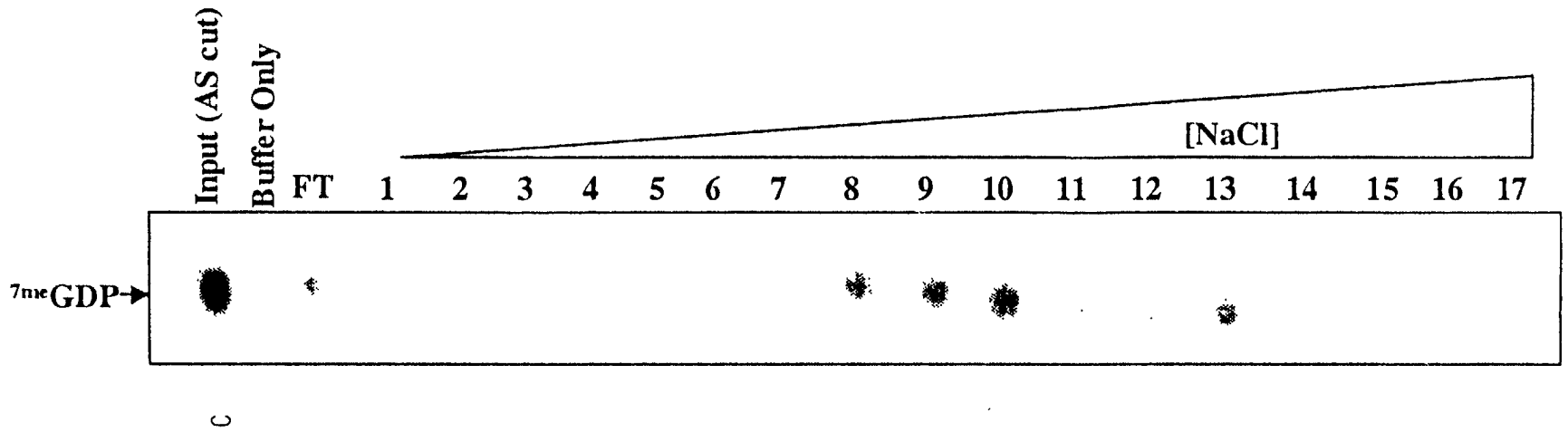


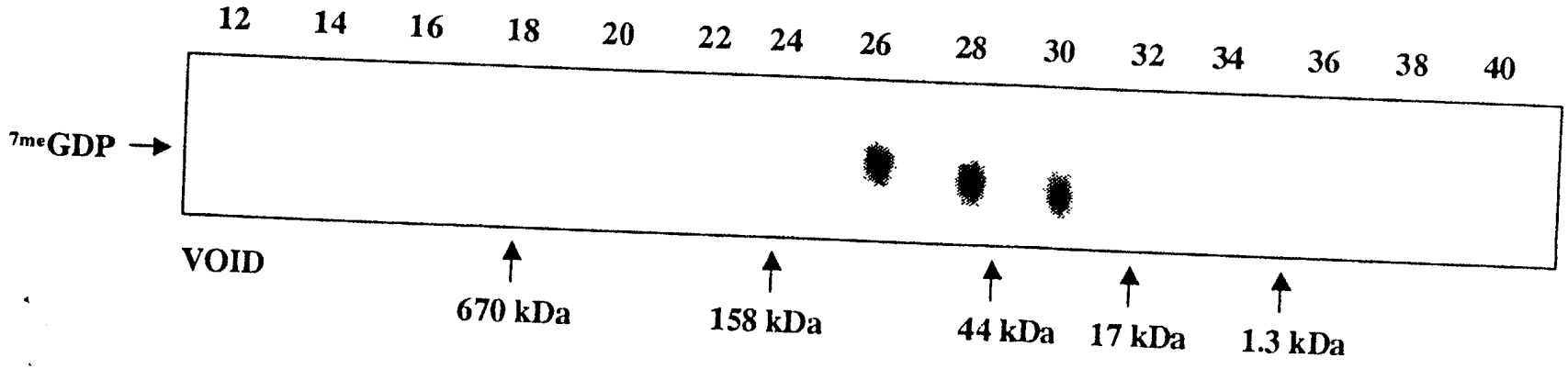
Figure 8, sheet 1

Chromatographic Profile of Decapping Activity on a Heparin-Sepharose Column



C

Chromatographic Profile of Decapping Activity on a Superose-6 Column



B

Figure 8, sheet 2

The mRNA stabilizing element from the α-globin gene represses decapping in vitro

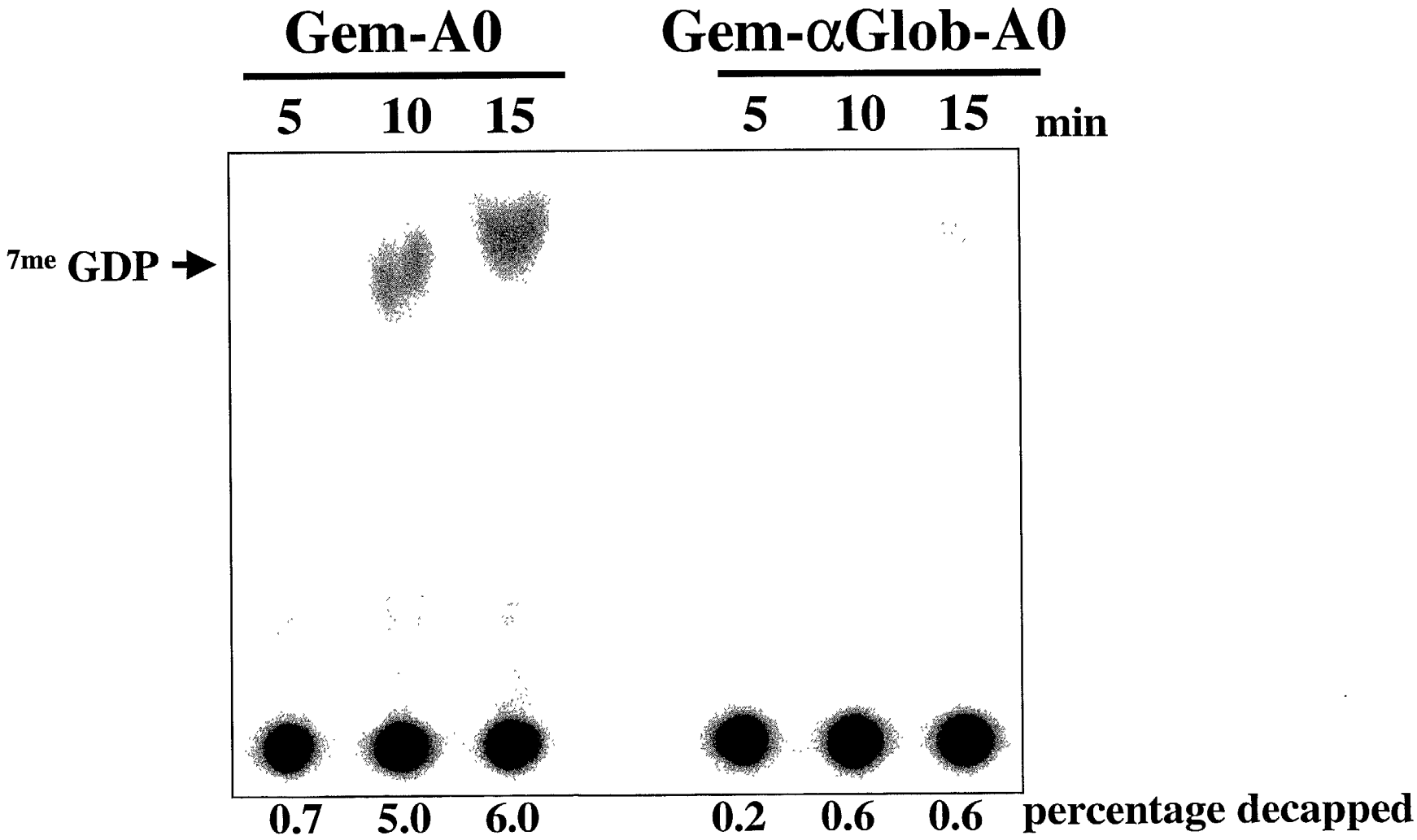


Figure 9